

**AMENDMENTS TO THE CLAIMS**

Please ADD new claims 54-63:

1. (Currently Amended) A system ~~for integrating a plurality of short-range communication protocols, the system~~ comprising:

a signaling protocol for enabling ~~an enhanced host controller~~ a hosting entity to share use of an RF transceiver between a plurality of communication modules ~~using a plurality of short-range communications protocols,~~

wherein the signaling protocol comprises,

a first parameter, which indicates currently enabled ones ~~of the communication modules~~ of the plurality of communication modules for use in responding to which a host command ~~may be directed,~~ and

a second parameter, which indicates a priority order for ~~sending the host command to each~~ operation of the enabled ones of the plurality of communication modules indicated by the first parameter in response to receiving the host command,

wherein the enabled ones of the plurality of communication modules indicated by the first parameter are operable in sequence according to the priority order indicated by the second parameter and the received host command.

2. (Currently Amended) The system of claim 1, wherein the plurality of ~~short-range communication protocols~~ modules operate in a same frequency area.

3. (Original) The system of claim 2, wherein the frequency area is a 2.4GHz frequency band.

4. (Currently Amended) The system of claim 1, wherein the plurality of ~~short-range communication protocols~~ modules is selected from a group comprising a Bluetooth

communication ~~protocol~~ module, an LEE communication ~~protocol~~ module and an RFID communication ~~protocol~~ module.

5. (Currently Amended) The system of claim 4, further comprising:

a signaling protocol for enabling the ~~enhanced host controller~~ hosting entity to communicate with at least one of the plurality of communication modules using the ~~an~~ LEE protocol.

6. (Currently Amended) The system of claim 4, further comprising:

a signaling protocol for enabling the ~~enhanced host controller~~ hosting entity to communicate with at least one of the plurality of communication modules using the ~~an~~ RFID protocol.

7. (Canceled)

8. (Canceled)

9. (Currently Amended) The system of claim 1, wherein the ~~enhanced host controller~~ hosting entity comprises at least one signaling protocol for enabling the ~~enhanced host controller~~ hosting entity to communicate with at least one of the plurality of communication modules employing at least one of the ~~a~~ plurality of short-range communication protocols.

10. (Currently Amended) A communication device ~~for integrating a plurality of short range communication protocols, the device~~ comprising:

an RF transceiver;

a plurality of communication modules;

a host capable of using ~~an enhanced~~ a signaling protocol; and

~~an enhanced host controller~~ a hosting entity in communication with the host and the plurality of communication modules, wherein the ~~enhanced host controller~~ hosting entity

employs the ~~enhanced~~ signaling protocol to enable use of the RF transceiver to be shared between the plurality of communication modules,

wherein the signaling protocol comprises,

a first parameter, which indicates currently enabled ones ~~of the communication modules~~ of the plurality of communication modules for use in responding to which a host command ~~may be directed~~, and

a second parameter, which indicates a priority order for ~~sending the host command to each~~ operation of the enabled ones of the plurality of communication modules indicated by the first parameter in response to receiving the host command,

wherein the enabled ones of the plurality of communication modules indicated by the first parameter are operable in sequence according to the priority order indicated by the second parameter and the received host command.

11. (Currently Amended) The device of claim 10, wherein the plurality of short-range communication ~~protocols~~ modules operate in a same frequency area.

12. (Currently Amended) The device of claim 11, wherein the frequency area ~~for the plurality of short-range communication protocols~~ is a 2.4 GHz frequency band.

13. (Currently Amended) The device of claim 10, wherein the plurality of ~~short-range~~ communication ~~protocols~~ modules is selected from a group comprising a Bluetooth communication ~~protocol~~ module, an LEE communication ~~protocol~~ module and an RFID communication ~~protocol~~ module.

14. (Currently Amended) The device of claim 13, further comprising:

a signaling protocol for enabling the ~~enhanced host controller~~ hosting entity to communicate with at least one of the communication modules using ~~the~~ a LEE protocol.

15. (Currently Amended) The device of claim 14, wherein the ~~enhanced host controller~~ hosting entity translates information received from the communication module using the LEE protocol into a readable format for the host.

16. (Currently Amended) The device of claim 13, further comprising:  
a signaling protocol for enabling the ~~enhanced host controller~~ hosting entity to communicate with a communication module using ~~the an~~ an RFID protocol.

17. (Currently Amended) The device of claim 16, wherein the ~~enhanced host controller~~ hosting entity translates information received from the communication module using the RFID protocol into a readable format for the host.

18. (Original) The device of claim 10, wherein the device is one of a cellular phone, laptop computer or a PDA.

19. (Currently Amended) The device of claim 10, wherein the ~~enhanced host controller~~ hosting entity comprises at least one signaling protocol for enabling the ~~enhanced host controller~~ hosting entity to communicate with at least one of the plurality of communication modules employing at least one of ~~the a~~ a plurality of short-range communication protocols.

20. (Currently Amended) A method ~~of communicating between a first device and a second device, the first device having an enhanced host controller to share use of an RF transceiver between a plurality of communication modules using a plurality of short-range communications protocols, the method~~ comprising:

selecting a communication module, ~~in the first device,~~ to transmit a wireless communication to ~~the a~~ a second device; and

transmitting the wireless communication, ~~from the first device,~~ to the second device within ~~the first device's~~ radio range,

wherein the communication module is selected according to a first parameter, which indicates currently enabled ones of ~~the communication modules of the~~ a plurality of communication modules for use in responding to which a host command ~~may be directed~~, and a second parameter, which indicates a priority order for ~~sending the host command to each operation~~ of the enabled ones of the plurality of communication modules indicated by the first parameter in response to receiving the host command,

wherein the enabled ones of the plurality of communication modules indicated by the first parameter are operable in sequence according to the priority order indicated by the second parameter and the received host command.

21. (Canceled)

22. (Canceled)

23. (Currently Amended) A system ~~for integrating a plurality of short-range communication protocols~~, the system comprising:

a processor;

a memory, communicatively connected to the processor;

a program stored in the memory, including,

a module for enabling ~~an enhanced host controller~~ a hosting entity to share use of an RF transceiver between a plurality of communication modules ~~using a plurality of short-range communications protocols~~, wherein the module comprises a first parameter, which indicates currently enabled ones of the plurality of communication modules for use in responding to which a host command ~~may be directed~~ and a second parameter, which indicates a priority order for ~~sending the host command to each~~ operation of the enabled ones of the plurality of

communication modules ~~in~~ indicated by the first parameter in response to receiving the host command,

wherein the enabled ones of the plurality of communication modules indicated by the first parameter are operable in sequence according to the priority order indicated by the second parameter and the received host command.

24. (Currently Amended) The system of claim 23, wherein the plurality of ~~short-range communication protocols~~ modules operate in a same frequency area.

25. (Currently Amended) The system of claim 24, wherein the frequency area ~~for the plurality of short-range communication protocols~~ is a 2.4 GHz frequency band.

26. (Currently Amended) The system of claim 23, wherein the plurality of ~~short-range communication protocols~~ modules is selected from a group comprising a Bluetooth communication ~~protocol~~ module, an LEE communication ~~protocol~~ module and an RFID communication ~~protocol~~ module.

27. (Currently Amended) The system of claim 26, further comprising:  
a module for enabling the ~~enhanced host controller~~ hosting entity to communicate with at least one of the plurality of communication modules using ~~the~~ an LEE protocol.

28. (Currently Amended) The system of claim 26, further comprising:  
a module for enabling the ~~enhanced host controller~~ hosting entity to communicate with at least one of the plurality of communication modules using ~~the~~ an RFID protocol.

29. (Canceled)

30. (Canceled)

31. (Currently Amended) The system of claim 23, wherein the ~~enhanced host controller~~ hosting entity comprises at least one signaling protocol for enabling the ~~enhanced host~~

~~controller~~ hosting entity to communicate with at least one of the plurality of communication modules employing at least one of ~~the~~ a plurality of short-range communication protocols.

32. (Currently Amended) A system ~~for integrating a plurality of short range communication protocols, the system~~ comprising:

means for enabling ~~an enhanced host controller~~ a hosting entity to share use of an RF transceiver between a plurality of communication modules ~~using a plurality of short range communications protocols~~ wherein said means comprises a first parameter, which indicates currently enabled ones of the plurality of communication modules for use in responding to which a host command ~~may be directed~~ and a second parameter, which indicates a priority order for ~~sending the host command to each~~ operation of the enabled ones of the plurality of communication modules ~~in~~ indicated by the first parameter in response to receiving the host command, wherein the enabled ones of the plurality of communication modules indicated by the first parameter are operable in sequence according to the priority order indicated by the second parameter and the received host command; and

means for enabling the ~~enhanced host controller~~ hosting entity to communicate with at least one of the plurality of communication modules employing at least one of ~~the~~ a plurality of short-range communication protocols.

33. (Original) The system of claim 32, wherein the plurality of short-range communication protocols operate in a same frequency area.

34. (Currently Amended) The system of claim 33, wherein the frequency area ~~for the plurality of short range communication protocols~~ is a 2.4 GHz frequency band.

35. (Original) The system of claim 32, wherein the plurality of short-range communication protocols is selected from a group comprising a Bluetooth communication protocol, an LEE communication protocol and an RFID communication protocol.

36. (Canceled)

37. (Canceled)

38. (Previously Presented) The system of claim 1, wherein the plurality of communication modules comprises at least three substantially concurrently operating communication modules.

39. (Canceled)

40. (Previously Presented) The system of claim 23, wherein the plurality of communication modules comprises at least three substantially concurrently operating communication modules.

41. (Canceled)

42. (Previously Presented) The system of claim 32, wherein the plurality of communication modules comprises at least three substantially concurrently operating communication modules.

43. (Canceled)

44. (Previously Presented) The system of claim 1, wherein the host command is received from a Bluetooth host.

45. (Previously Presented) The system, of claim 1, wherein the currently enabled ones of the communication modules include each of a Bluetooth, a LEE MAC and an RFID communication module and the priority order of the second parameter indicates, sending the host command to the RFID communication module prior to sending the command to either the LEE



MAC communication module or the Bluetooth communication module, and sending the host command to the LEE MAC communication module prior to sending the command to the Bluetooth communication module.

46. (Currently Amended) The system of claim 1, further comprising ~~an enhanced host controller~~ a hosting entity, wherein the ~~enhanced host controller~~ hosting entity is configured to modify the host command to one or more commands suitable for use by one or more of the communication modules indicated by the first parameter based on the priority order indicated by the second parameter.

47. (Currently Amended) The communication device of claim 10, wherein the ~~enhanced host controller~~ a hosting entity is configured to modify the host command to one or more commands suitable for use by one or more of the communication modules indicated by the first parameter based on the priority order indicated by the second parameter.

48. (Currently Amended) The communication device of claim 10, wherein for each communication module indicated as currently enabled by the first parameter, the ~~enhanced host controller~~ hosting entity, prior to sending the host command to a respective one of the enabled communication modules in accordance with the priority order indicated by the second parameter, modifies the host command to a command suitable for use by the respective one of the communication modules, if the host command otherwise is unsuitable for use by the respective one of the communication modules.

49. (Currently Amended) The communication device of claim 48, wherein the host command is a Bluetooth command and the ~~enhanced host controller~~ hosting entity modifies the Bluetooth command to at least one of an RFID command and a LEE MAC command that

satisfies the Bluetooth command for use by a currently enabled RFID communication module and a currently enabled LEE MAC communication module, respectively.

50. (Previously Presented) The communication device of claim 48, wherein the host command is unsuitable for use by any of the communication modules indicated by the first parameter as currently enabled.

51. (Previously Presented) The method of claim 20, further comprising modifying the host command to one or more commands suitable for use by one or more of the communication modules indicated by the first parameter based on the priority order indicated by the second parameter.

52. (Previously Presented) The system of claim 23, wherein the module is configured to modify the host command to one or more commands suitable for use by one or more of the communication modules indicated by the first parameter based on the priority order indicated by the second parameter.

53. (Previously Presented) The system of claim 32, further comprising means for modifying the host command to one or more commands suitable for use by one or more of the communication modules indicated by the first parameter based on the priority order indicated by the second parameter.

54. (New) The system of claim 1, wherein the priority order is determined based on a characteristic of each of the communication modules in performing an operation specified by the host command.

55. (New) The system of claim 54, wherein the characteristic is speed.

56. (New) The device of claim 10, wherein the priority order is determined based on a characteristic of each of the communication modules in performing an operation specified by the host command.

57. (New) The device of claim 56, wherein the characteristic is speed.

58. (New) The method of claim 20, wherein the priority order is determined based on a characteristic of each of the communication modules in performing an operation specified by the host command.

59. (New) The method of claim 58, wherein the characteristic is speed.

60. (New) The system of claim 23, wherein the priority order is determined based on a characteristic of each of the communication modules in performing an operation specified by the host command.

61. (New) The system of claim 60, wherein the characteristic is speed.

62. (New) The system of claim 32, wherein the priority order is determined based on a characteristic of each of the communication modules in performing an operation specified by the host command.

63. (New) The system of claim 62, wherein the characteristic is speed.